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Re: United States Patent Application No. 10/018,768
Title: Inhalers
Inventor(s): Quentin J. Harmer et al
Filing Date: December 17, 2001
Our Ref: VENNER/321/PC/US

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LISTING OF THE CLAIMS

1. (Currently Amended) An inhaler comprising:
a chamber having a mouthpiece;
a cyclone configured as a substantially cylindrical cavity provided with a tangential inlet and an axial outlet arranged to eject an aerosol of medicament into the chamber; and
a drug dosing device arranged to provide a dose of powdered medicament entrained in an airflow to the cyclone; and
wherein the diameter of the cylindrical cavity is between about 4 and 10mm; and a piston pump for providing the airflow of repeatable volume and velocity to the drug dosing device, the piston pump comprising a plunger received in a pump cylinder and a spring so that air is drawn into the cylinder when the plunger is withdrawn therefrom against the bias of the spring.
~~and one of either a piston pump or a gas canister for providing the airflow of repeatable volume and velocity to the drug dosing device.~~
2. (cancelled)
3. (Previously Presented) An inhaler as claimed in claim 1, wherein the drug dosing device is arranged to provide a dose of powdered medicament entrained in a gasflow to the cyclone.
4. (cancelled)
5. (original) An inhaler as claimed in claim 1, wherein the chamber is comparable in volume to the cyclone.
6. (original) An inhaler as claimed in claim 1, wherein the chamber has a volume of around 300 ml.
7. (cancelled)

8. (canceled)
9. (canceled)
10. (canceled)
11. (canceled)
12. (cancelled)
13. (original) An inhaler as claimed in claim 3, wherein the chamber is comparable in volume to the cyclone.
14. (cancelled)
15. (cancelled)
16. (original) An inhaler as claimed in claim 3, wherein the chamber has a volume of around 300 ml.
17. (cancelled)
18. (original) An inhaler as claimed in claim 5, wherein the chamber has a volume of around 300 ml.
19. (canceled)
20. (canceled)